

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S7	1	excessive near light near processing near member	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/21 08:15
S8	7	optical near path near synthesizing near member	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 09:47
S9	151	optical near path near synthesiz\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 09:47
S10	1	(optical near path) with synthesiz\$3 same ((excessive) with light)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 09:48
S11	2	(optical near path) with synthesiz\$3 same ((extra) with light)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 09:50
S12	170	((beam near split\$3) or (half near mirror) or (light near (process\$3 or synthesiz\$3))) same ((extra or excessive or emit\$4 or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve) with light) same (plural\$3 near light near source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 10:31
S13	485	347/241.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 10:36
S14	135	347/241.ccls. and ((beam near split\$4) or (half near mirror))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 10:54
S15	0	347/241.ccls. and yasushi-k.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 10:54
S16	2	347/241.ccls. and yasushi.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 10:55

## EAST Search History

S17	0	347/241.ccls. and kuribayashi.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 10:56
S19	28	kuribayashi-yasushi.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 10:56
S20	18	TSUBOI-MIGAKU.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:02
S22	34	(beam near split\$3) with (excessive)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:21
S23	84	(beam near split\$3) with (extra)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:27
S24	36	(beam near split\$3) near4 (extra)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:29
S25	9	(beam near split\$3) near4 (excess)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:34
S26	408	(beam near split\$3) near4 (incident or emitting) near surface	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:36
S27	8	(beam near split\$3) near4 (incident with emitting) near surface	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:42
S28	47	(stray near light) with (eliminat\$3 or prevent\$3) with optic\$3 with out	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:49
S29	2	(excess near light) with (eliminat\$3 or prevent\$3) with optic\$3 with out	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:49
S30	28	(excess near light) with (eliminat\$3 or prevent\$3) with optic\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:51

## EAST Search History

S31	46	(excessive near light) with (eliminat\$3 or prevent\$3) with optic\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:54
S34	9	((extra or excessive or emit\$4 or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray) near light) with (optic\$3 or (beam near split\$3))) same (taper\$3 or multi\$1stage) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 11:58
S35	20	((extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray) near light) with (optic\$3 or (beam near split\$3))) same (taper\$3 or multi\$1stage) and "359".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:00
S36	58	((extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray) near light) same (taper\$3 or multi\$1stage) and "359".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:02
S37	3	((extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray) near light) same (taper\$3 or multi\$1stage) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:02
S38	319	((extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray) near light) same (taper\$3 or multi\$1stage)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:02
S39	4	((extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray) near light) same (taper\$3 or multi\$1stage) same (beam near split\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:06
S41	166	(TSUJI-SHIGEKI MORITA-HIDEJI NAKAMURA-KENZO NISHIHARA-HIKARI OGATA-HIROSHI KATAYAMA-HIROSHI).in. and optic\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:20

## EAST Search History

S42	23	(TSUJI-SHIGEKI MORITA-HIDEJI NAKAMURA-KENZO NISHIHARA-HIKARI OGATA-HIROSHI KATAYAMA-HIROSHI).in. and (beam near split\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:22
S43	1	(beam near split\$3) same (multi\$1stage near taper\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:23
S44	380	(beam near split\$3) same (multi\$1stage or taper\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:23
S45	126	(beam near split\$3) same (multi\$1stage or taper\$3) with light	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:43
S46	1	(beam near split\$3) same (multi\$1stage or taper\$3) with light with excess	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:29
S47	0	(beam near split\$3) same (multi\$1stage or taper\$3) with light with extra	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:29
S48	1	(beam near split\$3) same (multi\$1stage or taper\$3) with light with excessive	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:29
S49	1	(beam near split\$3) same (multi\$1stage or taper\$3) with light with stray	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:30
S50	3	(beam near split\$3) same (multi\$1stage or taper\$3) with light with (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:33
S51	83	(multi\$1stage or taper\$3) with (light near (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:39

## EAST Search History

S52	0	(multiple near (stage or level or angle)) with (light near (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray)) same (beam near split\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:40
S53	0	(multiple near (stage or level or angle)) with (light near (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:41
S54	0	(multiple near (stage or level or angle)) with (beam near (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:41
S55	1	(multiple near (stage or level or angle)) with (beam near (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:41
S56	5	(multiple near (stage or level or angle)) with (light near (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:41
S58	92	((beam near split\$3) or (half near mirror) or optic\$3) same (multi\$1stage or taper\$3 or (multiple near (angle or surface or stage))) with (light or beam) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:45
S60	11	((beam near split\$3) or (half near mirror) or optic\$3) same (multi\$1stage or taper\$3 or (multiple near (angle or surface or stage))) with (light or beam) with (extra or excessive or emit\$4 or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/14 12:46

## EAST Search History

S63	467	((multi\$1tier\$2 or multi\$1stage\$2 or multi\$1surface\$2 or multi\$1step\$3) or ((multiple or multiplicity or many or plural\$3 or second) near2 (tier\$2 or stage\$2 or surface\$2 or step\$3))) with ((beam near split\$3) or (half near mirror) or (optic\$3)) with (light or beam) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/15 08:22
S65	13	((multi\$1tier\$2 or multi\$1stage\$2 or multi\$1surface\$2 or multi\$1step\$3) or ((multiple or multiplicity or many or plural\$3 or second) near2 (tier\$2 or stage\$2 or surface\$2 or step\$3))) with ((beam near split\$3) or (half near mirror) or (optic\$3)) with (light or beam) with (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray) and "347". clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/15 08:31
S66	67	((multi\$1tier\$2 or multi\$1stage\$2 or multi\$1surface\$2 or multi\$1step\$3) or ((multiple or multiplicity or many or plural\$3 or second) near2 (tier\$2 or stage\$2 or surface\$2 or step\$3))) with ((beam near split\$3) or (half near mirror) or (optic\$3)) with (light or beam) with (emitt\$3 with reflect\$3) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/15 08:32
S67	229	((multi\$1tier\$2 or multi\$1stage\$2 or multi\$1surface\$2 or multi\$1step\$3) or ((multiple or multiplicity or many or plural\$3 or second) near2 (tier\$2 or stage\$2 or surface\$2 or step\$3))) with ((beam near split\$3) or (half near mirror) or (optic\$3)) with (light or beam) with (extra or excessive or undue or redundant or ancillary or auxiliary or excess or extraneous or needless or leftover or unused or spare or reserve or stray)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/15 08:44
S69	9	light near (trap or dump) with tapered	USPAT	OR	ON	2006/08/15 09:00
S70	21	light near (trap or dump) with multiple	USPAT	OR	ON	2006/08/15 09:01
S71	3	("5170063"   "6069690"   "6191850"). PN. OR ("6884988").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 09:04
S72	31	("4674824"   "4857425"   "4929081"   "5003166"   "5329352"   "5479252"   "5841530").PN. OR ("5170063"   "6069690"   "6191850").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 09:08

## EAST Search History

S74	8	beam near dump and "347".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 09:12
S75	0	beam near dump and "399".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 09:12
S76	114	beam near dump and "359".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 09:22
S78	0	light near trap and "347".clas,	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 09:23
S79	38	light near trap and "347".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 09:36
S90	3	(stop\$3 or trap\$3 or absorb\$3 or dump\$3 or reflect\$3) near (light or beam or laser) near (excess\$3 or extra or extraneous or unwanted) same (tilt near angle)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 13:28
S91	55	(stop\$3 or trap\$3 or absorb\$3 or dump\$3 or reflect\$3) near (light or beam or laser) near (excess\$3 or extra or extraneous or unwanted) with angle	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 13:29
S92	15	(stop\$3 or trap\$3 or absorb\$3 or dump\$3 or reflect\$3) near (light or beam or laser) near (excess\$3 or extra or extraneous or unwanted) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 13:33
S93	104	(stop\$3 or trap\$3 or absorb\$3 or dump\$3 or reflect\$3) with (light or beam or laser) with (excess\$3 or extra or extraneous or unwanted) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 14:06
S95	35	remov\$3 adj excess adj light	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 14:12
S96	3	structure with stop with excessive with light	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 14:13
S97	11	member with stop with excessive with light	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 14:13

## EAST Search History

S98	18	reduce with mix\$3 with stray with light	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 14:26
S99	50	prevent\$3 with mix\$3 with stray with light	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 14:30
S10 0	207	deflect\$3 with stray with light	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 14:35
S10 8	425	347/224.ccls. and ((beam near split\$3) or mirror or optic\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/17 14:55
S10 9	0	JP04333858	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 10:04
S11 0	2	"04333858"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 10:33
S11 2	1	ito-masahiro.in. and (braille or blind)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 10:34
S11 3	387	ito.in. and (braille or blind)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 10:34
S11 4	163	ito.in. and (braille or blind) and (laser or light)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 10:35
S11 5	152	ito.in. and (braille or blind) and (print\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 10:36
S11 6	10	ito.in. and (braille) and (print\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 10:36
S11 7	3	"10058819"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 15:43



## EAST Search History

S11 8	1	"08063039"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 15:41
S11 9	2	"04333858"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 15:44
S12 0	3	"02220882"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 15:45
S12 1	1	"58063973"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/18 15:45
S12 2	491	(plural\$3 near (light or laser)) and ((beam near split\$4) or (half near mirror)) and ("347" or "399").clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/21 08:43
S12 3	2	"06349100"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/21 08:44
S12 4	1	"63065247"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/21 08:44
S12 5	1	"62065247"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/21 08:45
S12 6	135	align\$3 with (optic\$2 or beam or light or laser) with path same (exces\$4 or extra or stray or unwanted) with (light or beam or laser)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 12:45
S12 7	805	align\$3 with (optic\$2 or beam or light or laser) with path and (exces\$4 or extra or stray or unwanted) with (light or beam or laser) and (multi or multiple or plural\$3 or second) near (light or laser or beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 12:48

## EAST Search History

S12 8	315	align\$3 with (optic\$2 or beam or light or laser) with path and (remov\$3 or reflect\$3 or deflect\$3 or diminish\$3 or rid or dispos\$3 or trap\$4 or dump\$4) with (exces\$4 or extra or stray or unwanted) with (light or beam or laser) and (multi or multiple or plural\$3 or second) near (light or laser or beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 12:50
S12 9	228	align\$3 with (optic\$2 or beam or light or laser) with path and (remov\$3 or reflect\$3 or deflect\$3 or diminish\$3 or rid or dispos\$3 or trap\$4 or dump\$4) with (exces\$4 or extra or stray or unwanted) with (light or beam or laser) and (multi or multiple or plural\$3 or second) near (light or laser or beam) and ((beam or light or laser or optic\$3) near (split\$4 or mirror))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 13:45
S13 0	248	(347/233).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 13:54
S13 1	648	(347/238).ccls. not S130	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 15:42
S13 2	420	(347/241).ccls. not S130 not S131	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 15:10
S13 3	108	(347/242).ccls. not S130 not S131 not S132	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 16:06
S13 4	229	(347/243).ccls. not (S130 or S131 or S132 or S133)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 16:31
S13 5	171	(347/244).ccls. not (S130 or S131 or S132 or S133 or S134)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 13:53
S13 6	13	("4686542"   "4953950"   "4960320"   "5272715"   "5519432"   "5557475"   "5566024"   "5867318").PN. OR ("6407867").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/24 14:21

## EAST Search History

S13 7	29	("3449051"   "3534166"   "4019186"   "4170028"   "4201455"   "4205348"   "4213158"   "4314261"   "4357627"   "4404571"   "4454547"   "4554561"). PN. OR ("4686542").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/24 14:24
S13 8	6	("3449051").URPN.	USPAT	OR	ON	2006/08/24 14:28
S13 9	26	("4125864"   "4198701"   "4459690"   "4626069"   "5017000"   "5113286"   "5124843"   "5144483"   "5162943"   "5195103"   "5389959"   "5422753"   "5430546"   "5477383").PN. OR ("5631762").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/24 14:38
S14 0	388	(optic\$3 or beam) near\$3 scan\$4 and (diffus\$3 or reflect\$3 or deflect\$) with (stray or extra or exces\$4) near\$3 (light or beam or laser) and (((plural\$3 or multiple) near (light or beam or laser or optic\$2)) or (multibeam or multi-beam))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 15:20
S14 1	51	reflect\$3 with taper\$3 with optic\$2 with (mulitstage or multi-stage or plural\$3) with (light or beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/24 16:33
S14 2	91	((multiple or plural\$3) adj2 (surface or step or angle)) and (angle with reflect\$3) and (re-enter\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/25 11:14
S14 3	6	((multiple or plural\$3) adj2 (surface or step or angle)) and (angle with reflect\$3) with (re-enter\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/08/25 11:14